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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/568,230 | 02/11/2006 | Jie Chen | 060726-US | 6288 |
| Law Offices of Karl Hormann P O Box 381516 | | | EXAMINER | |
| | | | NGO, NGAN V | |
| Cambridge, MA 02238-1516 | | | ART UNIT | PAPER NUMBER |
| | | | 2818 | |
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| | | | 05/02/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|--|--|---|---|--|--|--|
| Office Action Summary | | 10/568,230 | CHEN ET AL. | | | |
| | | Examiner | Art Unit | | | |
| | | Ngan Ngo | 2818 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| WHIC - Exter after: - If NO - Failur Any r | DRTENED STATUTORY PERIOD FOR REPLIHEVER IS LONGER, FROM THE MAILING DISIONS of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period to to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the course the application to become ABANDON | DN. timely filed in the mailing date of this communication. JED (35 U.S.C. § 133) | | | |
| Status | | | | | | |
| 2a) <u></u> 3)□ | Responsive to communication(s) filed on <u>05 F</u> This action is FINAL . 2b) This Since this application is in condition for allowards closed in accordance with the practice under the | s action is non-final. nnce except for formal matters, p | | | | |
| Dispositi | on of Claims | • | | | | |
| 5) | Claim(s) 2-23 is/are pending in the application 4a) Of the above claim(s) 11-22 is/are withdraw Claim(s) is/are allowed. Claim(s) 2-10 and 23 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correction. | er. cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is o | ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d). | | | |
| | The oath or declaration is objected to by the E | xaminer. Note the attached Offic | e Action or form PTO-152. | | | |
| Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| 2) 🔲 Notice 3) 🔯 Inform | (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date <u>0406</u> . | 4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other: | Date | | | |

Application/Control Number: 10/568,230

Art Unit: 2818

The election filed February 5, 2007 has been entered and made of record as paper no. 0207.

Applicant's election of claims 2-10 and 23 in the reply filed on February 5, 2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The disclosure is objected to because of the following informalities:

Page 3 of the specification refers to "claim 1" in a few paragraphs. However, claim 1 was cancelled by the amendment filed 10/12/2006.

Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2-10 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Choi et al (US 2002/0001905 A1, cited by Applicants).

Choi discloses a vertical nano-transistor comprising a source (50), a drain (40), a channel region (100), and a gate region (20) comprising a metal film in which the gate region and the channel region form a coaxial structure.

Claims 2-10 and 23 are alternatively rejected under 35 U.S.C. 102(b) as being anticipated by Yu (US 6,426,259 B1).

Yu discloses a vertical nano-transistor comprising a source (218), a drain (228), a channel region (230), and a gate region (210) comprising a metal film in which the gate region and the channel region form a coaxial structure.

Claims 2-10 and 23 are alternatively rejected under 35 U.S.C. 102(b) as being anticipated by Fitch et al (US 5,612,563).

Fitch et al discloses a vertical nano-transistor comprising a source (14), a drain (34), a channel region (30), and a gate region (18) comprising a metal film in which the gate region and the channel region form a coaxial structure.

The other reference is cited to show other structure pertinent to Applicants' disclosure.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngan Ngo

April 29, 2007

Ngan Van Ngo Primary Examiner